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SATELLITE SITUATION REPORT

The following report reflects data computed and compiled by  
Goddard Space Flight Center, NORAD, and Smithsonian Astrophysical  
Observatory as of 1200Z on March 13, 1962.

  
RALPH R. STROBLE  
HEAD, Operations Branch

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OBJECTS IN ORBIT				SOURCE	CODE NAME	OBJECTS IN ORBIT				INCL- NATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/SS)
OBJECT	LAUNCH	NODAL PERIOD	INCL- NATION			APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/SS)					
1958 ALPHA 1	1 FEB 58	105.8	33.21	1741	342								
1958 BETA 1	17 MAR 58	138.3	34.26	4332	644								
1958 BETA 2	17 MAR 58	133.9	34.25	3945	648	108.024							
1959 ALPHA 1	17 FEB 58	125.3	32.88	3284	566								
1959 ALPHA 2	17 FEB 58	129.6	32.92	3681	541								
1959 ETA 1	18 SEP 59	129.7	33.39	3708	528								
1959 MU*	2 JAN 59	450D	0.01	1.3156AU	0.9766AU								
1959 NU*	3 MAR 59	398D	0.127	1.1421AU	0.9871AU								
1959 IOTA 1	13 OCT 59	101.1	50.30	1071	557	19.9907							
1959 IOTA 2	13 OCT 59	100.9	50.29	1056	554								
1960 ALPHA*	11 MAR 60	311.6D	3.35	.9951AU	.8061AU								
1960 BETA 1	1 APR 60	99.1	48.37	744	691								
1960 BETA 2	1 APR 60	99.1	48.38	749	692								
1960 BETA 3	1 APR 60	97.8	48.50	704	614								
1960 BETA 4	1 APR 60	99.8	48.17	808	700								
1960 GAMMA 2	13 APR 60	94.6	51.26	644	364								
1960 GAMMA 4	13 APR 60	96.8	51.24	740	476								
1960 EPSILON 1	15 MAY 60	91.1	64.98	398	261								
1960 EPSILON 3	15 MAY 60	92.8	64.97	555	272								
1960 ZETA 1	24 MAY 60	94.2	33.02	498	481	162;216							
1960 ETA 1	22 JUN 60	101.6	66.70	1046	625								
1960 ETA 2	22 JUN 60	101.6	66.70	1052	618								
1960 ETA 3	22 JUN 60	101.4	66.66	1029	621								
1960 IOTA 1	12 AUG 60	116.3	47.25	1828	1208								
1960 IOTA 2	12 AUG 60	118.0	47.17	1680	1508								
1960 IOTA 3	12 AUG 60	118.2	47.21	1679	1524								
1960 IOTA 4	12 AUG 60	118.2	47.23	1723	1484								
1960 IOTA 5	12 AUG 60	118.3	47.28	1684	1535								
1960 NU 1	4 OCT 60	106.9	28.28	1219	960	107.9709							
1960 NU 2	4 OCT 60	106.4	28.28	1213	922								
1960 XI 1	3 NOV 60	112.5	49.95	2265	420								
1960 XI 2	3 NOV 60	112.2	49.95	2244	419								
1960 XI 3	3 NOV 60	110.8	49.40	2131	398								
1960 XI 4	3 NOV 60	111.6	50.52	2181	430								

# OBJECTS IN ORBIT (CONT')

OBJECT	CODE NAME	SOURCES	LAUNCH	NODAL PERIOD	INCLINATION	APOGEE Km.	PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.51	735	615	
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.53	731	609	
1960 PI 3	NONE	US	23 NOV 60	98.1	48.54	729	616	
1960 PI 4	NONE	US	23 NOV 60	98.3	48.52	738	619	
1961 ALPHA 1	SAMOS II	US	31 JAN 61	94.9	97.37	545	475	
1961 ALPHA 2	METAL OBJECT	US	31 JAN 61	94.8	97.36	542	474	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.581	1.0190AU	0.7183AU	
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.0	38.80	2434	757	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.84	2591	638	
1961 DELTA 3	NONE	US	16 FEB 61	118.1	38.87	2503	705	
1961 EPSILON 1	DISCOVERER XX	US	17 FEB 61	92.3	80.86	495	277	
1961 ZETA 1	DISCOVERER XXI	US	18 FEB 61	91.4	80.65	466	213	
1961 KAPPA 1	EXPLORER X	US	25 MAR 61	POSITION UNCERTAIN				
1961 LAMBDA 1	DISCOVERER XXIII	US	8 APR 61	90.7	82.23	360	248	
1961 LAMBDA 2	CAPSULE	US	8 APR 61	93.8	81.88	719	197	
1961 NU 1	EXPLORER XI	US	27 APR 61	107.8	28.80	1782	487	
1961 OMICRON 1	TRANSIT 4A	US	29 JUN 61	103.8	66.80	997	882	54;150;324;400
1961 OMICRON 2	INJUN-SR-3	US	29 JUN 61	103.8	66.82	995	884	136.5
1961 OMICRON 3-45**	METAL OBJECTS	US	29 JUN 61					
1961 OMICRON 47-84**	METAL OBJECTS	US	29 JUN 61					
1961 RHO 1	TIROS III	US	12 JUL 61	100.3	47.90	811	745	
1961 RHO 2	ROCKET BODY	US	12 JUL 61	100.3	47.90	808	744	
1961 RHO 3	METAL OBJECT	US	12 JUL 61	98.8	47.95	791	619	
1961 RHO 4	METAL OBJECT	US	12 JUL 61	101.9	47.87	933	775	
1961 SIGMA 1	MIDAS III	US	12 JUL 61	161.5	91.52	3536	3354	
1961 SIGMA 3	METAL OBJECT	US	12 JUL 61	161.2	91.18	3548	3314	
1961 SIGMA 4	METAL OBJECT	US	12 JUL 61	161.9	91.14	3560	3362	
1961 UPSILON 1	EXPLORER XII	US	16 AUG 61	1590.8	33.86	76757	796	
1961 ALPHA DELTA 1	MIDAS IV	US	21 OCT 61	166.0	95.89	3740	3512	
1961 ALPHA DELTA 3	METAL OBJECT	US	21 OCT 61	165.6	95.85	3716	3504	
1961 ALPHA DELTA 4	METAL OBJECT	US	21 OCT 61	166.4	95.88	3772	3513	
1961 ALPHA EPSILON 1	DISCOVERER XXXIV	US	5 NOV 61	95.7	82.47	863	231	

# OBJECTS IN ORBIT (CONT'D)

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (ME/S)</u>
1961 ALPHA ETA 1	TRANSIT IV-B	US	15 NOV 61	105.6	32.42	1108	954	136.8;54;324;150;400
1961 ALPHA ETA 2	TRACG	US	15 NOV 61	105.6	32.42	1111	953	136.65;54;324
1961 ALPHA ETA 3	ROCKET BODY	US	15 NOV 61	105.5	32.41	1095	954	
1961 ALPHA LAMBDA 1	NONE	US	22 DEC 61	94.1	89.59	702	244	
1962 ALPHA 1	RANGER III	US	26 JAN 62	406.4D	.3988	1.163AU	0.9839AU	
1962 ALPHA 2	ROCKET BODY	US	26 JAN 62	HELIOCENTRIC ORBIT				
1962 BETA 1	TIROS IV	US	8 FEB 62	100.3	48.29	838	715	136.23;136.92
1962 BETA 2	ROCKET BODY	US	8 FEB 62	101.3	48.17	934	713	
1962 BETA 3	METAL OBJECT	US	8 FEB 62	99.4	48.42	762	706	
1962 BETA 4	METAL OBJECT	US	8 FEB 62	100.2	48.27	834	714	
1962 EPSILON 1	DISCOVERER XXXVIII	US	27 FEB 62	89.7	82.23	308	208	136.744
1962 ZETA 1	ORB. SOL. OBS. 1	US	7 MAR 62	95.8	32.92	577	557	
1962 ZETA 2	ROCKET BODY	US	7 MAR 62	96.0	32.92	588	557	
1962 ETA 1	NONE	US	7 MAR 62	93.9	90.93	688	236	
1962 ETA 2	NONE	US	7 MAR 62	90.3	90.85	350	226	
1962 ETA 3	NONE	US	7 MAR 62	93.9	90.85	683	245	

\*APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

\*\*EIGHTY-TWO METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LISTS.

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST:

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1960 EPSILON 4	NONE	USSR	15 MAY 60	PRIOR JUL 61
1961 DELTA 4	NONE	US	16 FEB 61	PRIOR JUL 61
1961 ALPHA KAPPA 1	DISCOVERER XXXVI	US	12 DEC 61	8 MAR 62
1961 ALPHA LAMBDA 2	NONE	US	22 DEC 61	31 DEC 61
1961 ALPHA LAMBDA 3	NONE	US	22 DEC 61	9 JAN 62
1962 DELTA 1	NONE	US	21 FEB 62	9 MAR 62
1962 EPSILON 1	CAPSULE	US	27 FEB 62	3 MAR 62**
1962 EPSILON 2	ROCKET BODY	US	27 FEB 62	3 MAR 62
1962 EPSILON 3	METAL OBJECT	US	27 FEB 62	3 MAR 62
1962 EPSILON 4	METAL OBJECT	US	27 FEB 62	7 MAR 62

\*\* SUCCESSFUL RE-ENTRY AND RECOVERY.